

PCT10

#6

RAW SEQUENCE LISTING DATE: 06/04/2002 PATENT APPLICATION: US/10/030,549 TIME: 14:58:20

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Output Set: N:\CRF3\06042002\J030549.raw

ENTERED

3 <110> APPLICANT: SOLVAY PHARMACEUTICALS B.V. 5 <120> TITLE OF INVENTION: Novel human G-protein coupled receptor \$7 <130> FILE REFERENCE: SPW99.04 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/030,549 C--> 10 <141> CURRENT FILING DATE: 2002-04-26 12 <160> NUMBER OF SEQ ID NOS: 18 14 <170> SOFTWARE: PatentIn Ver. 2.1 16 <210> SEQ ID NO: 1 17 <211> LENGTH: 1659 18 <212> TYPE: DNA ្ទុំ=19 <213> ORGANISM: Homo sapiens 21 <220> FEATURE: 22 <221> NAME/KEY: CDS 123 <222> LOCATION: (36)..(1559) \$25 <400> SEQUENCE: 1 ₫26 geetgeaace tgteyeacge ectetggetg ttgee atg acg tee ace tge ace 53 _≡ 27 Met Thr Ser Thr Cys Thr __28 5 30 aac agc acg cgc gag agt aac agc agc cac acg tgc atg ccc ctc tcc 101 31 Asn Ser Thr Arg Glu Ser Asn Ser Ser His Thr Cys Met Pro Leu Ser 10 15 34 aaa atg ccc atc agc ctg gcc cac ggc atc atc cgc tca acc gtg ctg 149 ₩35 Lys Met Pro Ile Ser Leu Ala His Gly Ile Ile Arg Ser Thr Val Leu 30 38 gtt atc ttc ctc gcc gcc tct ttc gtc ggc aac ata gtg ctg gcg cta 39 Val Ile Phe Leu Ala Ala Ser Phe Val Gly Asn Ile Val Leu Ala Leu 40 40 245 42 gtg ttg cag cgc aag ccg cag ctg ctg cag gtg acc aac cgt ttt atc 43 Val Leu Gln Arg Lys Pro Gln Leu Leu Gln Val Thr Asn Arg Phe Ile 60 65 46 ttt aac ctc ctc gtc acc gac ctg ctg cag att tcg ctc gtg gcc ccc 293 47 Phe Asn Leu Leu Val Thr Asp Leu Leu Gln Ile Ser Leu Val Ala Pro 80 50 tgq gtg gtc acc tct gtg cct ctc ttc tgg ccc ctc aac agc cac 341 51 Trp Val Val Ala Thr Ser Val Pro Leu Phe Trp Pro Leu Asn Ser His 95 90 389 54 ttc tqc acq qcc ctq qtt aqc ctc acc cac ctg ttc gcc ttc gcc agc 55 Phe Cys Thr Ala Leu Val Ser Leu Thr His Leu Phe Ala Phe Ala Ser 110 58 gtc aac acc att gtc ttg gtg tca gtg gat cgc tac ttg tcc atc atc 437 59 Val Asn Thr Ile Val Leu Val Ser Val Asp Arg Tyr Leu Ser Ile Ile 60 120 125 130 62 cac cct ctc tcc tac ccg tcc aag atg acc cag cgc cgc ggt tac ctg 485



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			Tyr														
68	пси	пси	- 1 -	OTY	155			, u _	*****	160	Deu	0111	501	1111	165	110	
	at a	+20	ggc	+ aa		na m	aat	aaa	+++		~ 2~	000	aa+	ant		taa	581
			Gly														201
	ьеu	тут	СТА	170	GIY	GIII	ΑΙα	Ата	175	ASP	GIU	AIG	MSII		ьeu	Сув	
72														180			620
			atc														629
	ser	met	Ile	ттр	GIY	Ата	ser		ser	туг	Thr	тте		ser	vaı	vai	
.76			185					190					195				677
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	Ser		Ile	Val	Ile	Pro		IIe	Val	Met	He		Cys	Tyr	ser	Val	
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		Phe	Cys	Ala	Ala		Arg	Gln	His	Ala		Leu	Tyr	Asn	Val		
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<u>~</u> 87	Arg	His	Ser	Leu		Val	Arg	Val	Lys	Asp	Cys	Val	Glu	Asn	Glu	Asp	
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_ 91	Glu	Glu	Gly	Ala	Glu	Lys	Lys	Glu	Glu	Phe	Gln	Asp	Glu	Ser	Glu	Phe	
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95	Arg	Arg	Gln	His	Glu	Gly	Glu	Val	Lys	Ala	Lys	Glu	Gly	Arg	Met	Glu	
<u>_</u> 96			265					270					275				
98 ۽۔۔۔																	917
99	Ala	Lys	Asp	Gly	Ser	Leu	Lys	Ala	Lys	Glu	Gly	Ser	Thr	Gly	Thr	Ser	
100		280					285					290					
102	gag	agt	. agt	. gta	gag	gco	agg	ggc	ago	gag	gag	gto	aga	gag	gago	agc	965
			Ser	· Val	Glu	Ala	ı Arg	, Gly	Ser	Glu	ı Glu	ı Val	. Arg	Glu	ı Sei	r Ser	
104	295					300)				305	;				310	
																aaa	1013
107	Thr	· Val	. Ala	Ser	Asp	Gly	z Ser	Met	: Glu	Gly	Lys	Glu	ı Gly	seı Seı	Thi	r Lys	
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110	gtt	gag	g gag	aac	ago	ato	aag	g gca	gac	aag	ggt	: cgc	aca	gag	gto	c aac	1061
111	Val	Glu	ı Glu	Asn	Ser	Met	. Lys	: Ala	Asp	Lys	Gly	Arg	Thi	Glu	ı Val	l Asn	
112				330					335	,				340)		
114	cag	tgo	ago	att	gac	ttg	, ggt	gaa	gat	ggc	atg	gag	r ttt	ggt	ga a	a gac	1109
115	Gln	Cys	Ser	: Ile	Asp	Let	ı Gly	Glu	Asp	Gly	Met	Glu	Phe	e Gly	/ Glu	ı Asp	
116			345	i				350)				355	;			
118	gac	ato	aat	ttc	agt	. gag	gat	gac	gto	gag	gca	gtg	aac	ato	c ccg	ggag	1157
119	Asp	Ile	. Asn	Phe	Ser	Glu	ı Asp	Asp	Val	Glu	Ala	Val	Asr	Ile	Pro	Glu	
120	_	360)				365	·				370):				
122	agc	cto	cca	ccc	agt	. cgt	: cgt	aac	ago	aac	ago	aac	cct	cct	cto	g ccc	1205
																ı Pro	
	375					380	_				385					390	
126	agg	tgo	tac	cag	tgc	aaa	gct	gct	aaa	gtg	ato	tto	ato	ato	att	ttc	1253
127	Arg	Cys	Tyr	Gln	Cys	Lys	Āla	ιĀla	Lys	Val	. Ile	Phe	: Ile	: Ile	e Ile	e Phe	
	_	_	_		_	_			_								

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						Glu											
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138	atc	atc	taa	ctt	ttc	ttc	cta	caq	tac	tac	atc	cac	ccc	tat	atc	tat	1397
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140		440					445		-1-	-1-		450		-1-	,	-1-	
	aac		atα	cac	аап	acc		aaσ	ааσ	паа	atc		aac	atα	cta	aarr	1445
						Thr											1447
	455	1 7 1	nec	1113	цуз	460	116	цуз	цуз	GIU	465	GIII	тэр	Mec	пец	470	
		++0	++0	+~~	224		22.0	000	~~~			~~+					1402
	_			_	_	gaa	_		_		_	-	_			-	1493
	гуз	Pne	Pile	Cys	_	Glu	гля	Pro	PIO	_	GIU	ASP	ser	HIS		Asp	
148					475					480					485		
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154							tgaa	igtta	igt 1	tctaa	aggca	aa ac	ctt	gaaaa	a		1589
155	Asp	Ser	Ala	Thr	Phe	Pro											•
1 156			505														
158	tcag	gtect	itc a	agcca	acago	ct at	ttag	gagct	: tta	aaaa	ctac	cago	jttca	aat o	cacto	gttat	1649
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168 169 170 172 173 175	<400 Met 1 Thr	3> OI)> SI Thr Cys	RGANI EQUEN Ser Met Ser	SM: NCE: Thr Pro 20	2 Cys 5 Leu	Thr	Asn Lys	Ser Met Ile	Pro 25	10 Ile	Ser	Leu	Ala Ser	His	15 Gly	Ile	
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168 169 170 172 173 175 176 178	<400 Met 1 Thr	3> OH D> SH Thr Cys Arg	RGANI EQUEN Ser Met Ser 35	SM: NCE: Thr Pro 20 Thr	2 Cys 5 Leu Val	Thr Ser	Asn Lys Val	Ser Met Ile 40	Pro 25 Phe	10 Ile Leu	Ser Ala	Leu Ala Pro	Ala Ser 45	His 30 Phe	15 Gly Val	Ile Gly	
168 169 170 172 173 175 176 178 179	<400 Met 1 Thr Ile Asn	3> OH D> SH Thr Cys Arg Ile 50	RGANI Ser Met Ser 35 Val	ISM: NCE: Thr Pro 20 Thr	2 Cys 5 Leu Val	Thr Ser Leu Leu	Asn Lys Val Val 55	Ser Met Ile 40 Leu	Pro 25 Phe Gln	10 Ile Leu Arg	Ser Ala Lys	Leu Ala Pro 60	Ala Ser 45 Gln	His 30 Phe Leu	15 Gly Val Leu	Ile Gly Gln	
168 169 170 172 173 175 176 178 179 181	<400 Met 1 Thr Ile Asn	3> OH D> SH Thr Cys Arg Ile 50	RGANI Ser Met Ser 35 Val	ISM: NCE: Thr Pro 20 Thr	2 Cys 5 Leu Val	Thr Ser Leu Leu	Asn Lys Val Val 55	Ser Met Ile 40 Leu	Pro 25 Phe Gln	10 Ile Leu Arg	Ser Ala Lys Val	Leu Ala Pro 60	Ala Ser 45 Gln	His 30 Phe Leu	15 Gly Val Leu	Ile Gly Gln	
168 169 170 172 173 175 176 178 179 181	<400 Met 1 Thr Ile Asn Val 65	3> OF	RGANI SQUEN Ser Met Ser 35 Val	ISM: NCE: Thr Pro 20 Thr Leu	2 Cys 5 Leu Val Ala Phe	Thr Ser Leu Leu Ile 70	Asn Lys Val Val 55 Phe	Ser Met Ile 40 Leu Asn	Pro 25 Phe Gln Leu	10 Ile Leu Arg Leu	Ser Ala Lys Val 75	Leu Ala Pro 60 Thr	Ala Ser 45 Gln Asp	His 30 Phe Leu Leu	15 Gly Val Leu Leu	Ile Gly Gln Gln 80	
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168 169 170 172 173 175 176 178 179 181 182 184 185	<400 Met 1 Thr Ile Asn Val 65 Ile	3> OI D> SI Thr Cys Arg Ile 50 Thr	RGANI EQUEN Ser Met Ser 35 Val Asn Leu	ISM: NCE: Thr Pro 20 Thr Leu Arg	2 Cys 5 Leu Val Ala Phe Ala 85	Thr Ser Leu Leu Ile 70 Pro	Asn Lys Val Val 55 Phe	Ser Met Ile 40 Leu Asn Val	Pro 25 Phe Gln Leu Val	10 Ile Leu Arg Leu Ala 90	Ser Ala Lys Val 75 Thr	Leu Ala Pro 60 Thr	Ala Ser 45 Gln Asp	His 30 Phe Leu Leu	15 Gly Val Leu Leu 95	Ile Gly Gln Gln 80 Phe	
168 169 170 172 173 175 176 178 181 182 184 185 187	<400 Met 1 Thr Ile Asn Val 65 Ile	3> OI D> SI Thr Cys Arg Ile 50 Thr	RGANI EQUEN Ser Met Ser 35 Val Asn Leu	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn	2 Cys 5 Leu Val Ala Phe Ala 85	Thr Ser Leu Leu Ile 70	Asn Lys Val Val 55 Phe	Ser Met Ile 40 Leu Asn Val	Pro 25 Phe Gln Leu Val	10 Ile Leu Arg Leu Ala 90	Ser Ala Lys Val 75 Thr	Leu Ala Pro 60 Thr	Ala Ser 45 Gln Asp	His 30 Phe Leu Leu Pro	15 Gly Val Leu Leu 95	Ile Gly Gln Gln 80 Phe	
168 169 170 172 173 175 176 178 181 182 184 185 187	<400 Met 1 Thr Ile Asn Val 65 Ile Trp	3> OI D> SI Thr Cys Arg Ile 50 Thr Ser	RGANI EQUEN Ser Met Ser 35 Val Asn Leu	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn 100	2 Cys 5 Leu Val Ala Phe Ala 85 Ser	Thr Ser Leu Leu Ile 70 Pro	Asn Lys Val Val 55 Phe Trp	Ser Met Ile 40 Leu Asn Val Cys	Pro 25 Phe Gln Leu Val Thr 105	10 Ile Leu Arg Leu Ala 90 Ala	Ser Ala Lys Val 75 Thr	Leu Ala Pro 60 Thr Ser Val	Ala Ser 45 Gln Asp Val Ser	His 30 Phe Leu Leu Pro Leu 110	15 Gly Val Leu Leu 95 Thr	Ile Gly Gln Gln 80 Phe	
168 169 170 172 173 175 176 178 181 182 184 185 187 188	<400 Met 1 Thr Ile Asn Val 65 Ile Trp	3> OI D> SI Thr Cys Arg Ile 50 Thr Ser	RGANI EQUEN Ser Met Ser 35 Val Asn Leu Leu	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn 100	2 Cys 5 Leu Val Ala Phe Ala 85 Ser	Thr Ser Leu Leu Ile 70 Pro	Asn Lys Val Val 55 Phe Trp	Ser Met Ile 40 Leu Asn Val Cys Asn	Pro 25 Phe Gln Leu Val Thr 105	10 Ile Leu Arg Leu Ala 90 Ala	Ser Ala Lys Val 75 Thr	Leu Ala Pro 60 Thr Ser Val	Ala Ser 45 Gln Asp Val Ser Val	His 30 Phe Leu Leu Pro Leu 110	15 Gly Val Leu Leu 95 Thr	Ile Gly Gln Gln 80 Phe	
168 169 170 172 173 175 176 178 181 182 184 185 187 188 190 191	<400 Met 1 Thr Ile Asn Val 65 Ile Trp Leu	3> OID> SIDD> SIDD> SIDD> SIDDD> SIDD> SIDDD> SIDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD>	RGANI EQUEN Ser Met Ser 35 Val Asn Leu Leu Ala 115	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn 100 Phe	2 Cys 5 Leu Val Ala Phe Ala 85 Ser	Thr Ser Leu Leu Ile 70 Pro His	Asn Lys Val Val 55 Phe Trp Phe Val	Ser Met Ile 40 Leu Asn Val Cys Asn 120	Pro 25 Phe Gln Leu Val Thr 105 Thr	10 Ile Leu Arg Leu Ala 90 Ala Ile	Ser Ala Lys Val 75 Thr Leu Val	Leu Ala Pro 60 Thr Ser Val Leu	Ala Ser 45 Gln Asp Val Ser Val 125	His 30 Phe Leu Leu Pro Leu 110 Ser	15 Gly Val Leu Leu 95 Thr	Ile Gly Gln Gln 80 Phe His	
168 169 170 172 173 175 176 178 181 182 184 185 187 189 191 193	<400 Met 1 Thr Ile Asn Val 65 Ile Trp Leu	3> OID> SIDD> SIDD> SIDD> SIDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDDD> SIDD> SIDDD> SIDD> SIDDD> S	RGANI EQUEN Ser Met Ser 35 Val Asn Leu Leu Ala 115	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn 100 Phe	2 Cys 5 Leu Val Ala Phe Ala 85 Ser	Thr Ser Leu Leu Ile 70 Pro	Asn Lys Val Val 55 Phe Trp Phe Val His	Ser Met Ile 40 Leu Asn Val Cys Asn 120	Pro 25 Phe Gln Leu Val Thr 105 Thr	10 Ile Leu Arg Leu Ala 90 Ala Ile	Ser Ala Lys Val 75 Thr Leu Val	Leu Ala Pro 60 Thr Ser Val Leu Pro	Ala Ser 45 Gln Asp Val Ser Val 125	His 30 Phe Leu Leu Pro Leu 110 Ser	15 Gly Val Leu Leu 95 Thr	Ile Gly Gln Gln 80 Phe His	
168 169 170 172 173 175 176 178 181 182 184 185 187 189 191 193 194	<400 Met 1 Thr Ile Asn Val 65 Ile Trp Leu Arg	3> OID> SITHER Cys Arg Ile 50 Thr Ser Pro Phe Tyr 130	RGANI EQUEN Ser Met Ser 35 Val Asn Leu Leu Ala 115 Leu	ISM: NCE: Thr Pro 20 Thr Leu Arg Val Asn 100 Phe Ser	2 Cys 5 Leu Val Ala Phe Ala 85 Ser Ala	Thr Ser Leu Leu Ile 70 Pro His Ser Ile	Asn Lys Val Val 55 Phe Trp Phe Val His 135	Ser Met Ile 40 Leu Asn Val Cys Asn 120 Pro	Pro 25 Phe Gln Leu Val Thr 105 Thr	10 Ile Leu Arg Leu Ala 90 Ala Ile Ser	Ser Ala Lys Val 75 Thr Leu Val Tyr	Leu Ala Pro 60 Thr Ser Val Leu Pro 140	Ala Ser 45 Gln Asp Val Ser Val 125 Ser	His 30 Phe Leu Leu Pro Leu 110 Ser	15 Gly Val Leu Leu 95 Thr Val	Ile Gly Gln Gln 80 Phe His Asp	
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	Glu	Asp	Ser	His	Pro							Glv	Glv	Thr	Glu	
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	<210															
	<211				′											
	<212 <213				Δr+i	fici	al c	lean c	nce							
	<220				A. L.		.u. c	-cque								
- · -																



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,549

DATE: 06/04/2002 TIME: 14:58:21

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Input Set : A:\Igsln_pct.app

Output Set: N:\CRF3\06042002\J030549.raw

- 273 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
- 275 <220> FEATURE:
- 276 <221> NAME/KEY: variation
- 277 <222> LOCATION: (19)
- 278 <223> OTHER INFORMATION: Degenerated primers
- 280 <220> FEATURE:
- 281 <221> NAME/KEY: variation
- 282 <222> LOCATION: (22)
- ,283 <223> OTHER INFORMATION: Degenerated primers
- 285 <220> FEATURE:
- 286 <221> NAME/KEY: variation
- 287 <222> LOCATION: (25)
- 288 <223> OTHER INFORMATION: Degenerated primers
- 290 <400> SEQUENCE: 3
- W--> 291 catcttcgtc gtcggcacng ynggnaa
 - 294 <210> SEQ ID NO: 4
 - 295 <211> LENGTH: 26
 - 296 <212> TYPE: DNA
 - 297 <213> ORGANISM: Artificial Sequence
 - 299 <220> FEATURE:
 - 300 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
 - €302 <220> FEATURE:
 - 1303 <221> NAME/KEY: variation
 - _304 <222> LOCATION: (21)
 - 305 <223> OTHER INFORMATION: Degenerated primers
 - 307 <400> SEQUENCE: 4
- W-->308 gggtggcaga tggccarrya nckytc
 - 311 <210> SEQ ID NO: 5
 - 312 <211> LENGTH: 27
 - 313 <212> TYPE: DNA
 - 314 <213> ORGANISM: Artificial Sequence
 - 316 <220> FEATURE:
 - #317 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 - 319 <220> FEATURE:
 - 320 <221> NAME/KEY: misc_feature
 - 321 <222> LOCATION: (27)
 - 322 <223> OTHER INFORMATION: Modified base : 3'-deoxyadenosine
 - 324 <400> SEQUENCE: 5
 - 325 acggtgggca acacggtgac ggcgtta
 - 328 <210> SEQ ID NO: 6
 - 329 <211> LENGTH: 27
 - 330 <212> TYPE: DNA
 - 331 <213> ORGANISM: Artificial Sequence
 - 333 <220> FEATURE:
 - 334 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 - 336 <400> SEQUENCE: 6
 - 337 ccatcctaat acgactcact atagggc
 - 340 <210> SEQ ID NO: 7
 - 341 <211> LENGTH: 23



DATE: 06/04/2002 TIME: 14:58:22

Input Set : A:\Igsln_pct.app

Output Set: N:\CRF3\06042002\J030549.raw

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/10/030,549

Please Note:

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Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 19,22,25

Seq#:4; N Pos. 21